

AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1. (Currently Amended) ~~A recording medium~~ An optical disc storing a data structure for managing reproduction of video data comprising:

a data area storing multi-path video data corresponding to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced,

wherein the first reproduction path and the second reproduction path include a common path portion referring to a same clip file; and

a navigation information area storing playlists including reproduction information of the multi-path video data,

wherein the playlist includes playitems specifying time based playing intervals in clip files of the multi-path video data. each playitem specifies the playing interval based on IN-time information indicating IN-point of the playing interval and OUT-time information indicating OUT-point of the playing interval.

wherein the number of the playlists associated with the one title is the same as the number of the reproduction paths of the multi-path video data associated with the one title.

2. (Currently Amended) ~~The recording medium~~ The optical disc of claim 1, wherein each of the playlists is associated with all of clip files for one path of the plurality of reproduction paths.

3. (Cancelled)

4. (Currently Amended) ~~The recording medium~~ optical disc of claim 1, wherein ~~each of the playlists includes a plurality of playitems,~~ different playitems included in the different playlists identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

5. (Currently Amended) ~~The recording medium~~ An optical disc having a data structure for managing reproduction of video data recorded on the recording medium comprising:

a data area storing multi-path video data corresponding to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths

are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced,

wherein the first reproduction path and the second reproduction path include a common path portion referring to a same clip file; and

a navigation information area storing a playlist including reproduction information of the multi-path video data,

wherein the playlist includes a plurality of playitems identifying a plurality of different clip files of the multi-path video data,

wherein the playlist includes playitems specifying time based playing intervals in clip files of the multi-path video data, each playitem specifies the playing interval based on IN-time information indicating IN-point of the playing interval and OUT-time information indicating OUT-point of the playing interval.

6. (Currently Amended) ~~The recording medium~~ The optical disc of claim 5, wherein at least one of the plurality of playitems identifying the clip file referred by the common path portion of the plurality of reproduction paths.

7. – 14. (Cancelled)

15. (Currently Amended) A method for recording a data structure for managing reproduction of video data on a recording medium, the method comprising:

recording multi-path video data in a data area on the recording medium so as to correspond to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

the plurality of reproduction paths including a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced,

wherein the first reproduction path and the second reproduction path include a common path portion referring to a same clip file; and

recording a plurality of playlists including reproduction information of the multi-path video data in a navigation information area on the recording medium,

wherein the number of the playlists associated with the one title is the same as the number of the reproduction paths of the multi-path video data associated with the one title,

wherein the playlist includes playitems specifying time based playing intervals in clip files of the multi-path video data, each playitem specifies the playing interval based on IN-time information indicating IN-point of the playing interval and OUT-time information indicating OUT-point of the playing interval.

16. (Currently Amended) A method for recording a data structure for managing reproduction of video data on a recording medium, the method comprising:

recording multi-path video data in a data area on the recording medium so as to correspond to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

the plurality of reproduction paths including a first reproduction path forming a first version of one title and a second reproduction path forming a second version of

one title, and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced,

wherein the first reproduction path and the second reproduction path include a common path portion referring to a same clip file; and

recording a playlist including reproduction information of the multi-path video data in a navigation information area on the recording medium,

wherein the playlist includes a plurality of playitems identifying a plurality of different clip files of the multi-path video data,

wherein the playlist includes playitems specifying time based playing intervals in clip files of the multi-path video data, each playitem specifies the playing interval based on IN-time information indicating IN-point of the playing interval and OUT-time information indicating OUT-point of the playing interval.

17. (Cancelled)

18. (Currently Amended) An apparatus for recording a data structure for managing reproduction of video data on a recording medium, the apparatus comprising:

an optical pickup configured to record data on the recording medium; and

a controller, operably coupled to the optical pickup, configured to control the optical pickup to record multi-path video data in a data area on the recording medium so as to correspond to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively and a plurality of playlists including reproduction information of the multi-path video data in a navigation information area

on the recording medium, such that the number of the playlists associated with one title is the same as the number of the reproduction paths of the multi-path video data associated with the one title,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced, and the first reproduction path and the second reproduction path include a common path portion referring to a same clip file,

wherein the playlist includes playitems specifying time based playing intervals in clip files of the multi-path video data, each playitem specifies the playing interval based on IN-time information indicating IN-point of the playing interval and OUT-time information indicating OUT-point of the playing interval.

19. (Currently Amended) An apparatus for recording a data structure for managing reproduction of video data on a recording medium, the apparatus comprising:

an optical pickup configured to record data on the recording medium; and
a controller, operably coupled to the optical pickup, configured to control the optical pickup to record multi-path video data in a data area on the recording medium so as to correspond to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively and a playlist including reproduction information of the multi-path video data in a navigation information area on the recording medium, such that the playlist includes a plurality of playitems identifying a plurality of different clip files of the multi-path video data,

wherein the playlist includes playitems specifying time based playing intervals in clip files of the multi-path video data, each playitem specifies the playing interval based on IN-time information indicating IN-point of the playing interval and OUT-time information indicating OUT-point of the playing interval,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced, and the first reproduction path and the second reproduction path include a common path portion referring to a same clip file.

20. (Cancelled)

21. (Currently Amended) A method for reproducing a data structure for managing reproduction of video data recorded on a recording medium, the method comprising:

reading at least one playlist including reproduction information of multi-path video data on the recording medium, wherein the multi-path video data corresponds to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced,

wherein the first reproduction path and the second reproduction path includes a common path portion referring to a same clip file;

and

reproducing selected one of the reproduction paths of the multi-path video data based on the read reproduction information,

wherein the playlist includes playitems specifying time based playing intervals in clip files of the multi-path video data, each playitem specifies the playing interval based on IN-time information indicating IN-point of the playing interval and OUT-time information indicating OUT-point of the playing interval.

22. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of video data recorded on a recording medium, the apparatus comprising:

an optical pickup configured to reproduce data recorded on the recording medium; and

a controller, operably coupled to the optical pickup configured to control the optical pickup to read at least one playlist including reproduction information of multi-path video data on the recording medium, wherein the multi-path video data corresponds to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively, and to reproduce selected one of the reproduction paths of the multi-path video data based on the read reproduction information,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and at least a portion of the first and second reproduction paths

are configured in parallel so either the first or the second reproduction path is reproduced when a version is reproduced, and the first reproduction path and the second reproduction path include a common path portion referring to a same clip file,

wherein the playlist includes playitems specifying time based playing intervals in clip files of the multi-path video data, each playitem specifies the playing interval based on IN-time information indicating IN-point of the playing interval and OUT-time information indicating OUT-point of the playing interval.

23. (Previously Presented) The method of claim 15, wherein each of the playlists is associated with all of the clip files for one path of the plurality of reproduction paths.

24. (Currently Amended) The method of claim 15, wherein ~~each of the playlists includes a plurality of playitems,~~ different playitems included in the different playlists identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

25. (Previously Presented) The method of claim 16, wherein at least one of the plurality of playitems identifying the clip file referred by the common path portion of the plurality of reproduction paths.

26. (Cancelled)

27. (Currently Amended) The apparatus of claim 18, wherein ~~each of the playlists includes a plurality of playitems,~~ different playitems included in the different playlists

identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

28. (Cancelled)

29. (Currently Amended) The method of claim 21, wherein the number of the playlists associated with the one title is the same as the number of the reproduction paths of the multi-path video data associated with the one title.

30. (Previously Presented) The method of claim 29, wherein each of the playlists is associated with all of the clip files for one path of the plurality of reproduction paths.

31. (Currently Amended) The method of claim 29, wherein ~~each of the playlists includes a plurality of playitems,~~ different playitems included in the different playlists identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

32. (Currently Amended) The method of claim 21, wherein the ~~playlist includes a~~ plurality of playitems identifying a plurality of different clip files of the multi-path video data.

33. (Currently Amended) The method of claim 32, wherein at least one of the plurality of playitems identifying the clip file referred by the common path portion of the plurality of reproduction paths.

34. (Currently Amended) The apparatus of claim 22, wherein the number of the playlists associated with the one title is the same as the number of the reproduction paths of the multi-path video data associated with the one title.

35. (Cancelled)

36. (Previously Presented) The apparatus of claim 34, wherein each of the playlists includes a plurality of playitems, different playitems included in the different playlists identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

37. (Previously Presented) The apparatus of claim 22, wherein the playlist includes a plurality of playitems identifying a plurality of different clip files of the multi-path video data.

38. (Cancelled)

39. (Currently Amended) The ~~recording medium~~optical disc of claim 1, wherein the navigation information area further stores a parental control information for reproducing permitted parental level of the title.

40. (Currently Amended) The ~~recording medium~~optical disc of claim 1, wherein one of the versions of the title is a parental control version of the title.

41. (Previously Presented) The ~~recording medium~~-optical disc of claim 1, having a general information file identifying a file name of a playlist, wherein the general information file, a playlist file including the playlist and a clip information file including attribute information of corresponding clip file being a separate file from each other.

42. (Previously Presented) The ~~recording medium~~-optical disc of claim 5, having a general information file identifying a file name of a playlist, wherein the general information file, a playlist file including the playlist and a clip information file including attribute information of corresponding clip file being a separate file from each other.

43. (Previously Presented) The ~~recording medium~~-optical disc of claim 4, wherein the common path portion included in the first reproduction path and the second reproduction path being identified by a same playitem with a same time based in-point and out-point.

<End of Claims Listing>